Fig. 1: NEUCLEOTIDE SEQUENCES OF THE FORWARD AND REVERSE PCR PRIMERS USED IN THE AMPLIFICATION OF THE GENOMIC L-ASPARAGINASE SEQUENCES OF WOLINELLA SUCCINOGENES.

[SEQ ID NO. 1] - FORWARD PCR PRIMER (BamH1 SITE UNDERLINED)

5' - TCCGGATCCAGCGCCTCTGTTTTGATGGCT- 3'

[SEQ ID NO. 2] - REVERSE PCR PRIMER (EcoR1 SITE UNDERLINED)

5' - TGGGAATTCGGTGGAGAAGATCTTTTGGAT- 3'

Fig. 5: DETERMINATION OF THE ANTI-TUMOR ACTIVITY OF THE WOLINELLA SUCCINOGENES (WS), ESCHERICHIA COLI (EC), AND ERWINIA CAROTOVORA (Erw) ASPARAGINASES AGAINST TUMORS GENERATED BY THE INJECTION OF 6C3HED GARDENER'S LYMPHOSARCAOMA CELLS IN C3H MICE

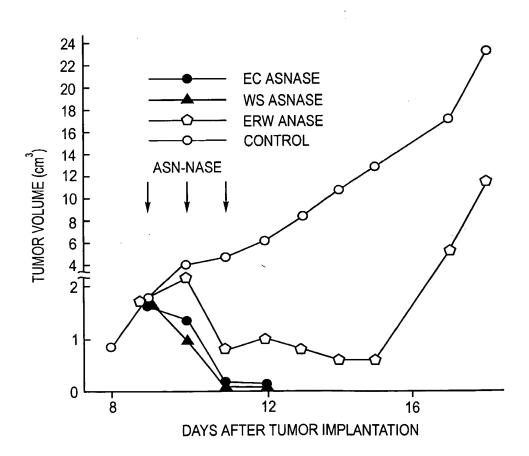


FIG. 2.

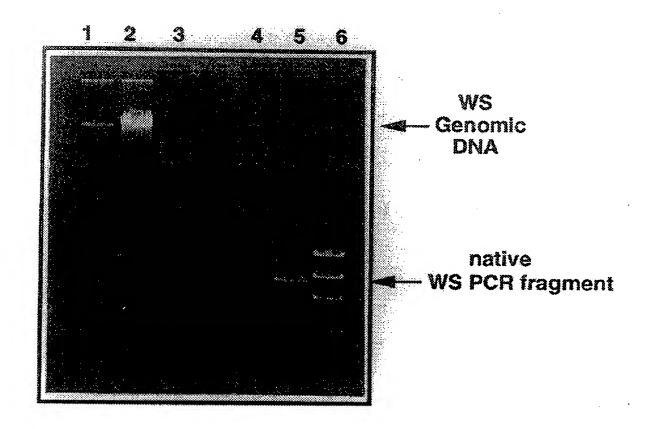


FIG. 3.

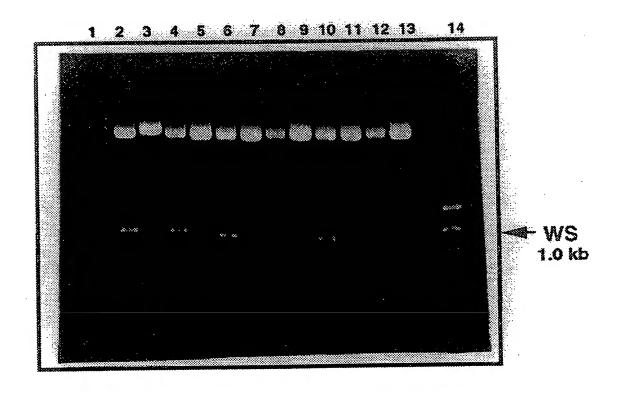
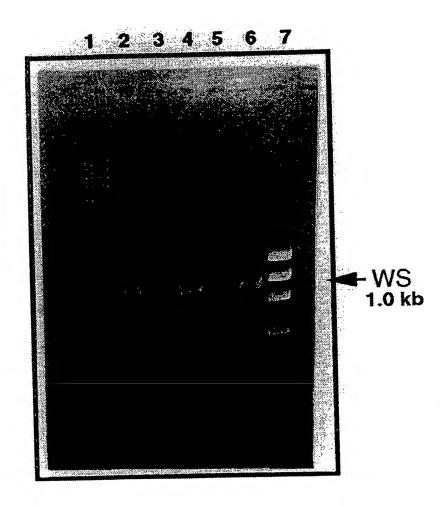
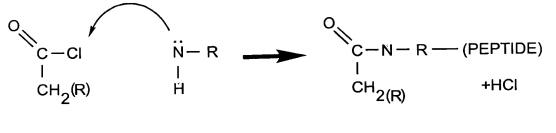


FIG. 4.



ATG GGC AGC CAT CAT CAT CAT CAT AGC AGC GGC CTG GTG CCG CGC GGC AGC CAT ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT CGC GGA TCC AGC GCC TCT GTT TTG ATG GCT AAA CCC CAA GTG ACT ATC CTA GCC ACA GGA GGC ACC ATC GCT GGT TCG GGG GAA TCT AGC GTC AAG AGT AGC TAC TCT GCT GGA GCA GTC ACC GTT GAT AAG CTT CTT GCA GCC GTC CCT GCC ATC AAC GAC CTA GCC ACC ATC AAG GGT GAA CAG ATC TCA AGC ATT GGC TCC CAA GAG ATG ACG GGT AAG GTG TGG CTT AAA CTA GCC AAG CGT GTC AAT GAG CTC CTC GCC CAA AAA GAG ACC GAA GCC GTG ATC ATC ACC CAT GGA ACT GAC ACC ATG GAA GAG ACC GCT TTC TTC CTC AAC CTC ACG GTG AAA AGC CAA AAA CCT GTC GTC CTT GTA GGC GCC ATG CGT CCA GGC TCT TCC ATG AGT GCT GAT GGC CCC ATG AAT CTC TAT AAC GCC GTG AAT GTA GCG ATC AAC AAA GCC TCT ACT AAC AAA GGA GTG GTG ATT GTG ATG AAC GAT GAG ATT CAC GCC GCC AGA GAA GCG ACC AAG CTC AAC ACC ACC GCA GTC AAT GCA TTT GCT TCG CCC AAC ACA GGT AAA ATC GGC ACA GTC TAT TAT GGC AAA GTC GAG TAT TTC ACT CAA TCC GTT CGA CCT CAC ACC CTT GCA AGT GAG TTT GAT ATT AGC AAA ATC GAA GAA CTC CCC AGA GTC GAT ATT CTT TAC GCT CAC CCC GAT GAT ACT GAT GTT TTA GTC AAT GCA GCC CTT CAG GCA GGA GCC AAA GGA ATC ATC CAT GCA GGC ATG GGC AAT GGG AAC CCT TTC CCT TTG ACT CAA AAT GCT CTT GAA AAA GCA GCC AAA TCA GGC GTA GTC GCT CGA AGC TCT AGA GTG GGC AGT GGT TCC ACC ACC CAA GAG GCT GAA GTG GAT GAT AAG AAA CTT GGT TTT GTG GCT ACA GAG AGT CTC AAC CCT CAA AAA GGC AGA GTG CTT CTT ATG TTA GCC CTC ACC AAA ACT AGT GAT AGA GAG GCG ATC CAA AAG ATC TTC TCC ACC TAT TAA TCCAAGAAAGGGAATCTCTTCAC

NEUCLEOPHILIC ATTACK



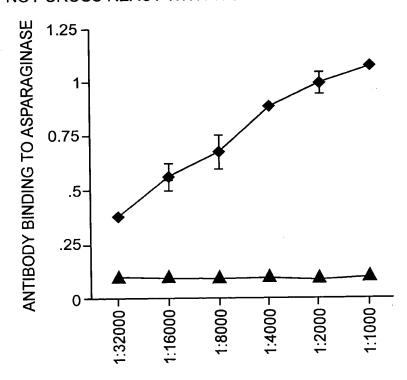
ACID CHLORIDE FREE AMINO GROUP

MODIFIED FREE AMINO MOIETY

pH 8.5 TO MAINTAIN PROTONATED STATE OF NITROGEN ATOM.

Fig. 7

PATIENT'S ANTIBODIES AGAINST E.coli ASPARAGINASE DO NOT CROSS REACT WITH WOLINELLA ASPARAGINASE



DILLUTION OF PATIENT'S PLASMA

→ WOLINELLA ASPARAGINASE

Fig. 8

→ E.coli ASPARAGINASE

BINDING OF ASPARAGINASE BY RABBIT ANTI-E.coli ASPARAGINASE

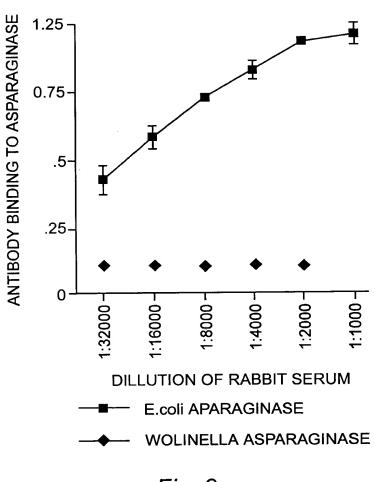


Fig. 9

DISEASE AND GRAFT VERSUS HOST DISEASE Inv. Donald L. Durden S.N. 09/937,982

FIG. IOA.

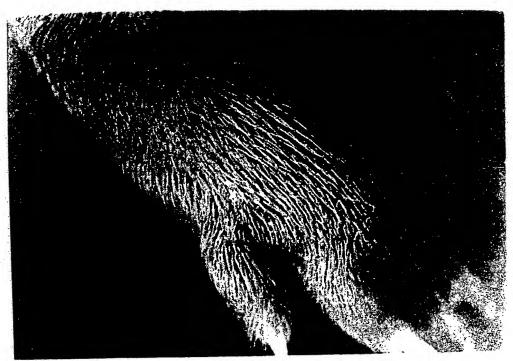


FIG. IOB.



Inv. Donald L. Durden
S.N. 09/937,982

09/09



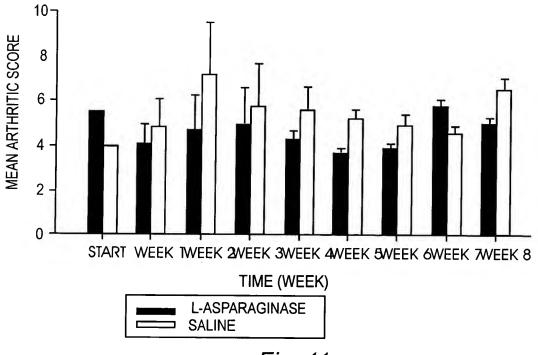


Fig. 11

MEAN ARTHRITIC SCORE (MAS) FOR DBA/1 MICE LPS MODEL

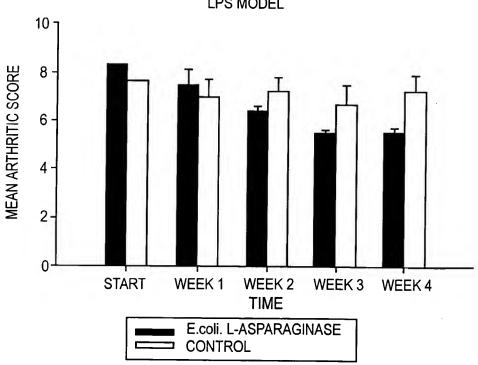


Fig. 12